

# Sherif Elfiky

Seaside, CA | (831) 383-8653 | [sherifelfiky1@gmail.com](mailto:sherifelfiky1@gmail.com) | [LinkedIn](#)

## EDUCATION

### University of California San Diego

Mar 2025

*B.S., Computer Engineering*

- **Coursework:** Advanced Data Structures, Design and Analysis of Algorithms, Software Engineering, Probabilistic Models, Machine Learning Algorithms, Discrete and Continuous Optimization, Web Development

### Monterey Peninsula College

Jun 2022

*A.S., Math, Physics, Computer Science*

## EXPERIENCE

### Jascot Development

Sep 2025 - Present

*Software Engineer Intern*

*Seaside, Ca (remote)*

- Built backend services with supabase and Javascript, integrating APIs and LLMs for faster prototyping
- Designed and implemented account lifecycle flows including signup, login, password reset, and account deletion
- Debugged production issues across auth, data access, and API layers to improve reliability and user experience

### Monterey Peninsula College

Feb 2022 - Jul 2022

*Computer Science Tutor*

*Monterey, Ca*

- Administered 1 hour Computer Science study sessions to improve scores on tests
- Addressed students' confusions on various practice problems
- Increased students scores on tests by 10 percent

## PROJECTS

### News Verified *Python, React, Next.js, FastAPI, PyTorch, BeautifulSoup4, Machine Learning*

- Developed an AI powered tool that summarizes and analyzes articles for bias
- Integrated BART models for summarization and zero shot classification using Hugging Face Transformers
- Built RESTful APIs with FastAPI and connected them to a responsive React frontend for smooth real time feedback
- Created responsive UI with loading states, error handling, and live classification results with confidence scoring visualization
- Implemented OAuth 2.0 with Google Sign In via NextAuth.js to ensure secure, authenticated access
- Deployed automated development and deployment workflows for cross platform compatibility

### Video clipping automation pipeline *Puppeteer, Node.js, Express, MongoDB, Youtube Data API*

- Built an end to end Node.js system that orchestrates headless browser workers (Puppeteer) to automate multi-step web workflows where no public API was available.
- Designed a job queue with Express and MongoDB, exposing REST endpoints for job submission and tracking state transitions (queued, processing, done) for observability and recovery.
- Implemented resilient automation with selector timeouts, structured retries, and per job page resets, enabling workers to process multiple jobs per browser session without manual authentication.
- Integrated YouTube Data API to discover source content and enqueue jobs incrementally, enabling continuous, rate limited clip generation.
- Documented production tradeoffs (polling vs push queues, browser reuse vs isolation, input typing vs direct value setting) and paths to scale.

### DoorDash ETA *Python, Pandas, SciKit-Learn, Keras*

- Utilizes 197k observations and 16 features to predict DoorDash wait times
- Compared multiples machine learning models such as linear regression, and neural networks to predict wait times
- Created a custom time to deliver target feature by transforming timestamp columns into numerical values for regression modeling
- Applied hyperparameter tuning to increase reliability of predictions
- Developed and tuned deep neural networks using TensorFlow/Keras with ReLU, ELU, and Leaky ReLU activations, incorporating early stopping and grid search
- Found diminishing returns from increasing model complexity, leading to conclusions about missing contextual features (e.g., weather, restaurant-specific delays) affecting ETA accuracy

## SKILLS & ACTIVITIES

- **Programming Languages:** Java, Python, C++, JavaScript/TypeScript, HTML, CSS, SQL
- **Tools:** Gradle, Bash, Github Actions
- **Libraries/Frameworks:** React, JavaFX, JUnit, Pandas, NumPy, Scikit-Learn, Keras, Next.js, Node.js, Express, REST APIs, PostgreSQL, MySQL